

## **REMARKS/ARGUMENTS**

Claims 1-20 are currently a part of this application.

Claims 1-3, 5-8, 10 , 11 and 13-20 have been rejected. Claims 4, 9 and 12 have been withdrawn.

### **I. Claim Rejections Under 35 U.S.C. § 102**

Claims 1-3,5-8, 10, 11 and 13-20 have been rejected under 35 U.S.C. § 102(b) as being allegedly anticipated by U.S. Patent Publication No. US 2002/0114940 to Clemens et al. (hereafter "*Clemens*"). The Examiner asserts that *Clemens* discloses a top coating composition (paragraph [0020]) comprising a mixture of a polymeric binder (paragraph [0022] and paragraphs [0114]-[0118]), heat expandable graphite particles (paragraph [0029] and [0187]), a polymeric carrier (paragraph [0129]) and an effective amount of a pigment (paragraph [0024]) that is deemed to be capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy efficiency rating greater than or equal to 0.25 for a steep sloped roof. According to the Office Action, the mixture in *Clemens* has a solids content from about 50-75% of which 1-10 wt. % is expandable graphite particles (paragraphs [0022]-[0029] and paragraph [0187]). The Office Action states that the mixture may also be cured [paragraph [0169].

To anticipate a claim, a reference must: (1) disclose every element of the challenged claim; and (2) enable one skilled in the art to make the claimed subject matter. See *PPG Indus., Inc. v. Guardian Indus. Corp.*, 75 F.3d 1558, 1566 (Fed. Cir. 1996). It is not sufficient that each element be found somewhere in the reference, the elements must be "arranged as in the claim." *Lindemann Maschinenfabrik GmbH v. American Hoist & Derrick Co.*, 730 F.2d 1452, 1458

(Fed. Cir. 1984). Further, the reference must be sufficiently clear so as to prove the existence of each and every element in the reference. See *Motorola, Inc. v. Interdigital Tech. Corp.*, 121 F.3d 1461, 1473 (Fed. Cir. 1997).

Applicant traverses the rejection under 35 U.S.C. § 102 and requests reconsideration. With all due respect to the Examiner, *Clemens* does not anticipate claim 1 since *Clemens* does not recite each and every element of claim 1 *arranged as in the claim*. (*Richardson v. Suzuki Motor Co.*, 8 U.S.P.Q.2d 1913, 1920 (Fed. Cir. 1989). (emphasis added). The Examiner has merely picked and chosen the individual components of the top coating composition of claim 1 from the *Clemens* application. *Clemens* is directed to a coating system that comprises a basecoat of a thermosetting asphalt, extended chemically cross-linked – urethane/epoxy hybrid basecoat on a substrate, and a thermoplastic powder coating topcoat overlying at least the basecoat. *Clemens* does not, however, recite a top coating composition as recited in claim 1 of the present application, comprising a mixture of:

- a polymeric binder (thermoplastic polymer);
- heat expandable graphite particles;
- a polymeric carrier (water);
- a pigment capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy efficiency greater than or equal to 0.25 for a steep-sloped roof; and

wherein said mixture has a solids content from about 50-75 % of which 1-10 wt. % is said expandable graphite particles.

Nor does *Clemens* recite a pigment *capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy*

*efficiency greater than or equal to 0.25 for a steep-sloped roof.* (emphasis added). Nowhere in *Clemens* is there any teaching of a pigment that is employed in a top coating composition to provide the initial energy efficient ratings for low-sloped and steep-sloped roofs as noted above.

As recited in the Specification of the present application in paragraph [0031], the coating of the present invention needs to be capable of maintaining a solar reflectance for three years after installation on a low-sloped roof under normal conditions of greater than or equal to 0.50 (measured from the first year after installation). For steep-sloped roofing products, the top coating of the present invention has to maintain a solar reflectance for three years after installation under normal conditions of greater than or equal to 0.15 (measured from the first year after installation). The top coating of claim 1 provides a coating having these properties. Since *Clemens* does not teach each and every element of the top coating of claim 1, *Clemens* does not recite a top coating having the properties of the coating in claim 1. Further, unlike *Clemens*, the top coating composition of claim 1 of the present application does not include a basecoat and a topcoat.

Accordingly, since *Clemens* teach each and every element of claim 1 arranged as in the claim, claim 1 is not anticipated, and Applicants thus respectively request reconsideration and withdrawal of the rejection under 35 U.S.C. §102(b).

Since claims 2, 3, 5-8, 10, 11, 13 and 14 depend directly or indirectly from amended claim 1, these claims incorporate all the limitations of amended claim 1 and are likewise not anticipated for the same reasons as asserted with regard to amended claim 1.

Additionally, independent claim 15 is not anticipated for the same reasons as recited with respect to independent claim 1. Specifically, *Clemens* does not recite a top coating, as in claim 15 of the present invention, comprising a cured reaction product of a polymeric binder, heat

expandable graphite particles, a polymeric carrier and a pigment, said cured reaction product having an initial energy efficiency rating greater than or equal to 0.65 when applied to low-sloped roof, or an initial energy efficiency greater than or equal to 0.25 when applied to a steep-sloped roof. The thermoplastic topcoat as a stand-alone product according to *Clemens* (paragraphs [0114]-[0119] is a powder applied over a base coat, and is not a cured reaction product which incorporates: a polymeric binder, heat expandable graphite particles, a polymeric carrier and a pigment, and which has an initial energy efficiency rating greater than or equal to 0.65 when applied to low-sloped roof, or an initial energy efficiency greater than or equal to 0.25 when applied to a steep-sloped roof, as recited in claim 1 of the present application.

While *Clemens* does recite numerous additives and ingredients which “could” be a component of the “coating system”, *Clemens*, nevertheless does not recite each and every element of claim 15 arranged as in the claim and thus claim 15 is not anticipated.

Claims 16-20 depend directly or indirectly from independent claim 15 and incorporate all the limitations of claim 15 therein. As such, claims 16-20 are not anticipated for the same reasons as asserted with regard to claim 15.

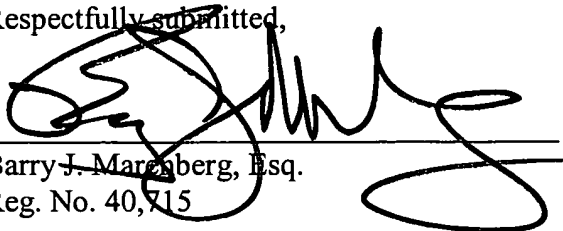
## **II. Conclusion**

In view of the aforementioned remarks and amendments, the Applicants believe that each of the pending claims is in condition for allowance. If, upon receipt and review of this amendment, the Examiner believes that the present application is not in condition for allowance and that changes can be suggested which would place the claims in allowable form, the Examiner is respectfully requested to contact Applicants’ undersigned counsel at the number provided below.

Please charge any additional fees that may be due, or credit any overpayment of same, to  
Deposit Account No. 03-1250 (Ref. No. FDN-2799).

Date: 8/17/06

Respectfully submitted,



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